



Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J13010004					
Project Name:	NPDES - MONTHLY					
Customer Name(s):	Craig Mercer, Mark J Harper, Todd Spade, Tara Thomas, Matthew Hoyt					
Customer Address:	11021 BROWER RD.					
	NORTH BEND, OH 45052					
Lab Contact:	Therona T James	Phone: 980-875-479	5			
Report Authorized By: (Signature)		Date:	1/10/2013	1/10/2013		

Program Comments:

Please contact the Program Manager (Therona T James) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717.. Certified parameters are designated with an "N" in the analytical report.

Sample ID's & Descriptions:

Sample ID	Collection Plant/Station Date and Time		Collected By	Sample Description	
2013000024	MIAMI-FORT	02-Jan-13 10:00 AM	Mark Harper	OUTFALL 002	
2013000025	MIAMI-FORT	02-Jan-13 9:30 AM	Mark Harper	OUTFALL 608	
2 Total Samples					

Technical Validation Review

Checklist:

	COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).		
All Results are less than the laboratory repo	All Results are less than the laboratory reporting limits.		
All laboratory QA/QC requirements are acc	laboratory QA/QC requirements are acceptable.		
Report Sections Included:			
✓ Job Summary Report	☐ Sub-cor	ntracted Labora	atory Results
✓ Sample Identification	☐ Custom	er Specific Da	ta Sheets, Reports, & Documentation
✓ Technical Validation of Data Package	☐ Custom	er Database E	ntries
✓ Analytical Laboratory Certificate of Analysis	Chain o	f Custody	
☐ Analytical Laboratory QC Report	☐ Electron	nic Data Delive	erable (EDD) Sent Separately

Reviewed By: Mary Ann Ogle Date: 1/10/2013

01/07/2013 15:50

SWILLI3

Certificate of Laboratory Analysis

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Order # J13010004

Site: OUTFALL 002 Sample #: 2013000024 **NPDES** Collection Date: 02-Jan-13 10:00 AM Matrix: Analyte Result Units Qualifiers **RDL** DF Method Analysis Date/Time **Analyst TOTAL DISSOLVED SOLIDS**

40

1

SM2540C

Site: OUTFALL 608 Sample #: 2013000025

Ν

Collection Date: 02-Jan-13 9:30 AM Matrix: NPDES

mg/L

760

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4.5)								
Alkalinity (mg/L CaCO3)	2100	mg/L (CaCO3)	N	0.1	1	SM2320B	01/04/2013 11:30	TJA7067
INORGANIC IONS BY IC								
Chloride	6700	mg/L	N	100	1000	EPA 300.0	01/03/2013 14:16	BGN9034
Fluoride	22	mg/L	N	5	50	EPA 300.0	01/03/2013 14:16	BGN9034
Sulfate	6600	mg/L	N	100	1000	EPA 300.0	01/03/2013 14:16	BGN9034
TOTAL METALS BY ICP								
Boron (B)	631	mg/L	M4; N	2.5	50	EPA 200.7	01/07/2013 09:35	MHH7131
Iron (Fe)	0.039	mg/L	N	0.01	1	EPA 200.7	01/07/2013 09:35	MHH7131
Manganese (Mn)	0.341	mg/L	N	0.005	1	EPA 200.7	01/07/2013 09:35	MHH7131
TOTAL RECOVERABLE METALS BY	ICP-MS							
Arsenic (As)	< 20	ug/L	N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
Barium (Ba)	145	ug/L	N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
Cadmium (Cd)	< 20	ug/L	N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
Chromium (Cr)	< 20	ug/L	N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
Copper (Cu)	< 20	ug/L	N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
Lead (Pb)	< 20	ug/L	N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
Zinc (Zn)	< 20	ug/L	B1; N	20	1	EPA 200.8	01/07/2013 14:47	KRICHAR
TOTAL DISSOLVED SOLIDS								
TDS	26000	mg/L	N	100	1	SM2540C	01/07/2013 15:50	SWILLI3
TOTAL SUSPENDED SOLIDS								
TSS	9.0	mg/L	N	5	1	SM2540D	01/07/2013 09:11	SWILLI3

Qualifiers:

TDS

B1 Target analyte detected in method blank at or above the reporting limit. Target analyte concentration in sample was greater than 10X the concentration of the target analyte detected in the method blank. Analyte concentration in sample is not affected by contamination.

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Certificate of Laboratory Analysis

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M4 The spike recovery value was unusable since the analyte concentration in the sample was disproportionate to the spike level. The associated Laboratory Control Spike recovery was acceptable.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM **Analytical Laboratory Use Only** Analytical Lab **Duke Energy Analytical Laboratory** Sample Class NPDES ¹⁹Page __1_ of _1__ Page 6 of 6 LIMS# Duke Energy... OHIO DISTRIBUTION Originating From ORIGINAL to LAB, Mail Code MGO3A2 (Building 7405) **COPY to CLIENT** 13339 Hagers Ferry Rd Huntersville, N. C. 28078 Fax: (704) 875-5245 SAMPLE PROGRAM (704) 875-4349 **NPDES** MIAMI-FORT NPDES Monthly Cooler Temp (C) (Week 1- January 2, 2013) 15Preserv.:1=HCL 2=H₂SO₄ 3=HNO₃ PO# 4)Fax No: 3)Client 3 4=Ice 5=None Miami-Fort - Tara Thomas, Matt Hoyt 16 Analyses Required B, Fe, Mn, As, Ba, Cd, Cr, Cu, Pb, Zn IMR# 7)Resp. Center To: 6)Process: 5)Business Unit: 10)Mall Code: Customer to complete all 8)Project ID: appropriate non-shaded areas. CI, F, SO4 Alkalinity ¹⁴Collection Information 18Grab TDS TSS LAB USE ONLY 12Chem ¹³Sample Description or ID Time Date Desktop No. X 11Lab ID -2-13 Outfall 002 1 1 X 2013000024 Outfall 608 2013000025 Customer to sign & date below - fill out from left to right. 22 Requested Turnaround Customer, IMPORTANT! Please indicate desired turnaround. 1030 7425 1-2-13 10 Days 5)Relinquished By Date/Time 8)Accepted By: Date/Time 7)Relinquished By * Add. Cost Will Apply 9)Seal/Locked By 1-2-13 1030 HKS 11)Seal/Locked By Fe HACH = O.DImg/L ICP TOT - B, Fe, Mn IMS-TRM - As , Ba, Cd, Cr, Cu, Pb, Zn Comments: